

Claims

What is claimed is:

- [c1] A method for resolving updates in a directory server, comprising:
generating a change sequence number;
creating a total ordering of operations by time using the change sequence number;
extracting state information from an entry associated with an operation from the
total ordering; and
computing a new state for the entry using extracted state information and the
operation associated with the entry.
- [c2] The method of claim 1, wherein total ordering is enforced by a value resolution
routine.
- [c3] The method of claim 1, wherein state information is recorded for an attribute of
the entry.
- [c4] The method of claim 3, wherein state information is recorded for a value of the
attribute.
- [c5] The method of claim 1, further comprising:
storing state information in the directory server.
- [c6] The method of claim 1, further comprising:
promulgating copies of data by update resolution procedure to a consumer server.
- [c7] The method of claim 1, further comprising:
promulgating copies of data by update resolution procedure to a supplier server.

- [c8] A directory server comprising:
a supplier server;
a consumer server in communication with the supplier server;
a plurality of pluggable services that manage replication of data contained within
the directory server from the supplier server to the consumer server; and
an update resolution procedure used to detect and resolve update conflicts between
consumer servers;
wherein replication of data is managed using the update resolution procedure.
- [c9] The directory server of claim 9, wherein the update resolution procedure uses an
update resolution policy to detect and resolve update conflicts between consumer
servers.
- [c10] The directory server of claim 9, wherein the update resolution procedure
promulgates copies of data to the consumer server.
- [c11] The directory server of claim 9, wherein the update resolution procedure
promulgates copies of data to the supplier server.
- [c12] An apparatus for resolving updates in a directory server, comprising:
means for generating a change sequence number;
means for creating a total ordering of operations by time using the change
sequence number;
means for extracting state information from an entry associated with an operation
from the total ordering; and
means for computing a new state for the entry using extracted state information
and the operation associated with the entry.